

Agfa

ISOLY-MAT

GUARANTEE

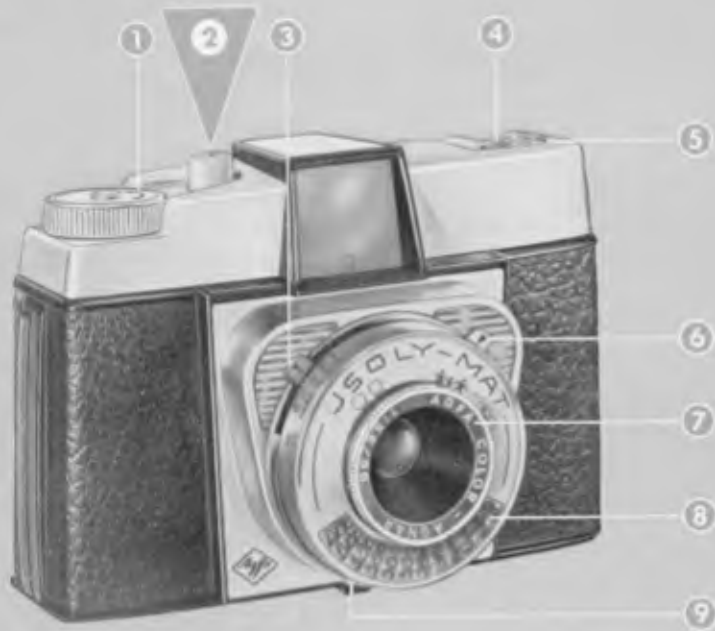
The lens fitted to your camera is a product of the Agfa Camera-Werk and has been computed and manufactured in conformity with the most up-to-date scientific methods.

It reaches a standard of performance never previously attained in lenses of equal speed having the same number of elements. Its chief advantages lie in extremely high resolving power, excellent definition and outstanding reproduction of detail.

The total of these characteristics makes it the ideal lens for successful photography with black and white or colour film.

In addition, every lens is thoroughly tested before leaving our factory by the most up-to-date methods and is guaranteed by us for its quality and performance.

AGFA AKTIENGESELLSCHAFT
Camera-Werk Muenchen



EXPLANATION
OF ADJACENT ILLUSTRATIONS

- ① Film transport knob
- ② Magic release button with
cable release connection
for time exposures
- ③ Lever for setting film speed
- ④ Flash contact
- ⑤ Accessory shoe
- ⑥ Setting lever for automatic
photography and for flash
and time exposures
- ⑦ Focusing
- ⑧ Exposure meter
- ⑨ Diaphragm setting lever
for flash photography

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You are now the proud owner of a technically perfect camera—the fully automatic Agfa Isoly-mat which does not require any complicated manual operations and so leaves you free to concentrate on the subject. That will be a source of real pleasure to you and represents the modern age of photography.

The fully automatic mechanism of this camera calculates, thinks and acts for you automatically and invisibly. Just a touch of the magic release knob is sufficient.

The pictures you obtain measure $1\frac{1}{2} \times 1\frac{1}{2}$ in. (4 x 4 cm.) and a $2\frac{1}{4} \times 3\frac{1}{4}$ in. (6 x 9 cm.) film gives you sixteen of these. Remember therefore you will require a $2\frac{1}{4} \times 3\frac{1}{4}$ film (also known as a B2-8 or 120 roll film) for your camera.

You can also have your 4 x 4 photographs enlarged. You are certain to obtain good pictures if you read through these brief instructions carefully.



Film transport

The object of the protective paper surrounding the roll film is to guard it against light from outside sources whilst the paper backing provides particulars of the exposure sequence.

Your photographic dealer probably loaded the first film for you. If the number 1 is visible in the window at the back of the camera, it is ready for use (see adjacent illustration).

If this is not the case, turn the film transport knob in the direction of the arrow until the number 1 appears. Exact details of how to load the camera are given on pages 7 to 9.





Focusing

Three symbols assist in focusing the camera. According to your subject, set the black mark to one of the symbols illustrated at top right.

If necessary, you can also adjust the setting mark to any intermediate position between two symbols.

Exact focusing particulars will be found on the lower part of the setting ring:

black figures = metres

green figures = feet

DISTANCE OF SUBJECT



6 ft.



13 ft.



infinity



Holding the camera

One important requirement in obtaining correctly exposed photographs is to set the film speed beforehand. (This is marked on every film carton.) To do this, move the setting lever until the black line is opposite the corresponding number (for further detail see page 10).

Now you can take the first photograph. Take the Isoly-mat in both hands and brace your arms at an angle against your body. The index finger of your right hand should lie gently on top of the magic release button. Bring the viewfinder close to your eye and then you will be able to see the exact picture area which will be reproduced on the film.

Important: When taking a photograph, hold the camera absolutely steady and **press the release button evenly**. Then turn the film on for the next photograph.



Exposing

Note

The automatic mechanism is engaged when the black line of the setting lever is opposite the letter "A".

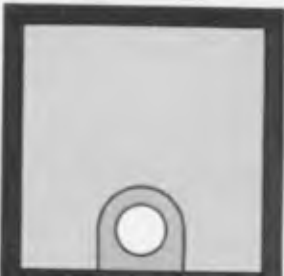
Look through the viewfinder:
red signal will be visible.

Press down magic release button to pressure point.

Green signal is then visible: "All clear" for your photograph.

Press release button right down.

If signal remains red: stop—remove finger from release button as light is not sufficient.



Points to note:

When the release knob is pressed, a resistance point will be felt.

If there is enough light, the green signal will then appear.

In this case hold the camera steady and press release button right down.

If the red signal remains, there is not enough light, therefore free release button again.

Never alter the direction of the camera during the exposure.

More fun ...



TECHNICAL SECTION

is obtained from photography when you have mastered the hints mentioned and are thoroughly familiar with your camera too.

First of all, something about films and how to choose them: The size of the picture given by your camera is $1\frac{1}{2} \times 1\frac{1}{2}$ in. (4 x 4 cm.), which means that you will obtain sixteen exposures from a 120 roll film.

First use Agfa Isopan F. It is a fine-grain black and white film of good contour sharpness.

In dull weather, it is advisable to use a film of higher speed such as Agfa Isopan ISS or Agfa Isopan Ultra.

With Agfacolor films you can explore the world of colour. These films have been firm favourites for twenty-five years because of their natural reproduction of both pastel and brilliant colours.

For sharp, brilliant colour transparencies

by daylight: Agfacolor Reversal Film CT

by artificial light: Agfacolor Reversal Film CK

For wonderful colour prints

by daylight and artificial light:

Agfacolor Negative Film CN



Inserting the film

The camera can be loaded in daylight, but always in the shade—at least in body shadow.

First open the camera back by sliding catch in direction of upper arrow. Remove camera back to the side as shown by lower arrow.

Open up the lower spool retaining clip as illustrated. The upper spool compartment should contain an empty spool.

Break the seal of the film with a finger nail and remove any surplus sealing paper.

Insert the film so that the paper tongue with the writing on the paper uppermost points towards the empty spool. Insert film spool on to the peg. Return spool retaining clip to its original position.



Loading the camera . . .

Draw the paper tongue towards the empty spool and insert it in the longer of the two slits.

Before closing the camera back make sure that the backing paper is exactly in line with the camera edges. Then turn the film transport knob 2 to 3 times to tauten the paper. Make sure that it winds on to the spool evenly to protect it against exposure.

This is important to ensure proper transport of the film.



... is so easy

Your Isoly-mat can now be closed again by inserting the back in the housing groove. Push the lid back into position, and secure the catch.



Watch the film window and start to transport the film until the figure 1, preceded by a few dots, is visible in the window. The camera is then ready for use.

Setting the film speed

Directly after loading the camera, note the film speed from the carton and set this figure on your camera. This will ensure correctly exposed photographs.

To do this, set the black line on the lever opposite the corresponding film speed value. The lever can be moved freely to both sides. It engages by click stops in each of the film speed settings shown and the intermediate and final values not marked. You can thus photograph fully automatically with all types of film ranging from 11 to 25 DIN or 10 to 250 ASA.

When the magic release button is pressed down the exposure meter reading is transferred to the shutter. During the exposure the correct lens stop for the constant shutter speed of $1/70$ sec. is selected and set accordingly.





Ever-ready case

After loading the film it is advisable to return the camera to its ever-ready case and to screw it up.

Double exposures impossible

A suitable locking mechanism prevents a picture from being exposed twice by mistake. When the red dot is visible alongside the transport knob, the film has to be transported before making the next exposure.

Close-ups

It is a fascinating pastime to explore and capture the world of miniature objects. With the suitable close-up attachment, type 6719/320, for your Isoly-mat, you can cover a range of 59 to 31 in. (150-80 cm.). With the Natarix attachment, type 6711/320, you can actually approach to within 19 in. (48 cm.) of the object photographed. An additional viewfinder attachment is provided for parallax correction.

Without the automatic mechanism

We have already mentioned the two signals in the viewfinder. Photographs with the automatic mechanism are not possible when the signal remains red. However, this mechanism can be disconnected and there are then two possible ways of obtaining satisfactory photographs with your Isoly-mat in poor lighting conditions.

Time exposures

Set the black mark on the lever to "B". On this setting the shutter stays open as long as the magic release button is depressed. You cannot therefore expose with the camera held in the hand. The use of a tripod and cable release



is advisable in such cases. The latter is screwed into a thread in the release button. On the "B" setting you always photograph at the full lens aperture of f. 5.6.

Much simpler—flash photos

Set the black line on the lever opposite the flash symbol (see illustration on page 13).

On this setting the shutter speed will be $1/30$ sec. The adjacent table shows the apertures needed for a number of flash bulbs at present on the market. The aperture numbers can be seen and set underneath the lens mount; follow

the particulars given on the flash bulb package but do not set any intermediate aperture values for flash photos.



The Isi Flashgun M has a simple contact which is made by merely sliding the foot into the accessory shoe of the camera from the rear. This synchronises the shutter with the flashgun.



APERTURE TABLE FOR FLASH PHOTOGRAPHY

Symbol	Distance feet	Black and white film Negative colour film 17 DIN / 40 ASA	Daylight colour reversal film 18 DIN / 50 ASA
		XM 1 PF 1	XM 1 B PF 1 B
	5	f. 16	
	6		
	8	f. 11 f. 8 f. 5.6	
	13		
	20		

When the setting lever is returned from the flash symbol to A (= automatic mechanism), the aperture lever automatically returns to its original position.



If an **electronic flashgun** is used, an adapter will be necessary. The required aperture can be calculated from the guide number of the flashgun.

Special exposure hints

Where clear detail is required in photographs taken against the light or in deep shadows, the automatic mechanism of the camera can still be used with the setting on the DIN/ASA scale reduced by about 3 DIN. Similarly, with an overcast sky, the reduction should be about 2 DIN and for dull weather about 4 DIN. If, for example, the film in the camera has a speed of 18 DIN = 40 ASA, a reduction of 3 DIN would give a setting of 15 DIN for these special photographs.

Do not forget to re-set the correct DIN number after taking the photograph.

Filters available for your Isoly-mat

Slip-on 32 mm. mount
for black and white
photographs:

reduce the film speed
setting for:

light yellow by 1 DIN
medium yellow

by 2 DIN

yellow-green by 2 DIN

UV filter no change

For special colour
reversal film photo-
graphs:

Agfa Color Filter R 1.5
no change

Removing exposed film

After the 16th exposure, the film transport knob should be turned on until the end of the backing paper passes the film window.

Open the camera (only in the shade and at least in body shadow) by pushing the catch towards the back of the camera. Then withdraw the camera back, swivel out the upper spool retaining clip and remove the full film spool from the camera. Fold the end of the backing paper inwards, secure the film with the attached sealing strip and place the film in its protective paper in the carton.



Before inserting the next roll of film, the empty spool will have to be transferred to the top film compartment. To do this, open up both spool retaining clips and place the empty spool from the bottom compartment in the top compartment. Make sure that the slit in the end of the spool engages with the drive of the film transport knob. Then close the two spool retaining clips again.

We reserve the right to make alterations arising from further development of the Agfa Isoly-mat.

AGFA AKTIENGESELLSCHAFT
Camera-Werk Muenchen

Mounting and projecting slides

You will be delighted with the first colour transparencies which you take with your Agfa Isoly-mat. Before projecting your slides, however, the film has to be cut and framed separately. We advise you to use Agfacolor Transparency Frames for this purpose. They are practical and you can mount your transparencies quickly with them.

Projecting your own colour transparencies of your holidays or week-end outings is a real experience. Of course, with an efficient Agfa projector. For your Isoly-mat we recommend the Agfa CP 44 or the pleasingly styled magazine projector Agfa Diamator H. The fully automatic Agfa Diamator M projector offers you genuine technical progress. If you own this projector, you can sit back in your easy chair and do everything from there: the commentary, changing the slides and focusing the projector. The finishing touch to your brilliant colour transparencies is provided by the Agfa Lumenta bright silk screen.

AGFA CP 44
projector



AGFA DIAMATOR H
magazine projector



AGFA AKTIENGESSELLSCHAFT
CAMERA-WERK MÜNCHEN

2435 engl. - 1261

Made in Germany